



SIMALFA 745

Product Description

SIMALFA® 745 is a sprayable, one-part, water based adhesive that is simple to use, offers speed for increased profitability, and conforms to the many changing environmental regulations.

Simalfa 745 is designed for bonding plastic laminate and veneers to substrates such as plywood, particle board, MDF and metal.

Features and Benefits

Solvent Free.....	100% waterborne system
Bonds Instantly	Increase productivity and boost profits
Friendly to Equipment.....	Maintenance free
One Part System.....	A simple, trouble free application. Free Flowing System™
High Solids.....	Excellent mileage
Heat Resistant	Superior bond quality at elevated temperatures
Unique Adhesion	Bonds to metals and plastics instantly
Consistent.....	Reliable performance

Physical Properties

Composition:	Dispersion of acrylic resin and synthetic rubber in water
Color:	Milky white or dyed
Odor:	Slight
Solids Content:	55%
Specific Gravity:	1.06 g/cm ³ at 68°F (20°C)
Particle Size:	140 Micron
pH Value 73°F (23°C).....	7.0 – 9.2
Viscosity Brookfield	Approximate 1000 cP
Break Elongation:	600%
Heat Resistance:	176°F – 194°F (80°C – 90°C)
Boiling Point:	212°F (100°C)
Freezing Point:	32°F (0°C)
Storage and Handling:	Minimum 40°F (5°C) and maximum 104°F (40°C). Store in a dry place. Keep tightly closed to prevent loss of moisture.
Shelf Life:	4 months in unopened container.
Cleaning:	Washable with water.

SIMALFA®

Surface Preparation

Surfaces must be clean, dry and dust free. Any petroleum based product such as oil or grease can prevent suitable bonding.

Application

Never agitate or mix before using. Adhesive can be applied to both surfaces with a spray gun, automatic roll machine, or manual roller. Spray guns should be adjusted to give a paint-like spray pattern. Hold the spray gun 8-12 inches from the surface and be sure to overlap the pattern slightly with each pass to ensure uniform coverage.

Coverage

Coverage will vary depending on the porosity of substrates and strength of adhesive bond desired. Typical users will cover up to 1000 square feet per gallon. In all cases, user evaluation will be required to determine the optimum coverage levels for their application.

Assembly and Bonding Time

Simalfa can bond immediately after spraying. Pressure may be applied via manual or mechanical methods to enhance the initial bond. In addition, the user can place the substrates together up to 20 minutes after spraying if required by their production process. After 20 minutes the adhesive may dry and the final adhesion can suffer, or a pseudo-adhesion could take place.

The final bond is achieved once the residual water has evaporated. Although water evaporation happens quickly, it is recommended users wait 24 hours before performing any final bond testing.

Application Method and Equipment

SIMALFA is best dispensed via our patented Free Flowing gravity delivery system and applied with our high volume low-pressure (HVLV) spray guns. Other spray gun manufacturers may also have suitable application equipment. To find out if your spray gun works with Simalfa, just contact us, we can help.

We can supply all the necessary design, engineering and equipment to properly install and use SIMALFA.

Application Method:Manual spray
Secondary Application Method:Automatic spray, roll or brush
Spray Gun:SIMALFA HVLV
Nozzle Size:2.5 mm
Method of Dispensing:Free Flowing System (Patent#: 5868319) or pressure container.

DO NOT PUMP

Other Information:All parts coming in contact with adhesive must be made of stainless steel or plastic. Definitely NO colored metals, aluminum, steel, brass, etc.

Cleaning of Equipment:Use water only. Never use solvents of any type.

DO NOT SUBMERGE SPRAY GUN IN WATER

Cleanup

In some cases wet adhesive may be removed with water. Dry adhesive cannot be removed from porous substrates such as foams or fabrics. It is recommended that users prevent adhesive from getting on surfaces where it's not wanted.



Precautionary Information

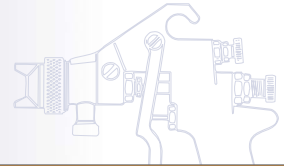
Please refer to the Material Safety Data Sheet and Product Label for Health and Safety Information before using Simalfa.

For Additional Information

To request further information visit our website at WWW.SIMALFA.COM, contact us via telephone at (973)423-9266, or mail us at SIMALFA, 15 Lincoln Street, Hawthorne NJ 07506 USA. To arrange an on-site demonstration please contact us at (973)423-9266 immediately.

Important Notice

This information is accurate to the best of Alfa Adhesives, Inc.'s knowledge, or obtained from sources believed by Alfa Adhesives, Inc. to be accurate. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of this product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Alfa Adhesives, Inc. hereunder are given gratis and Alfa Adhesives, Inc. assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.



SIMALFA 745

1. Product Information

Trade Name:SIMALFA® 745
Product Use:Water-borne adhesive for bonding plastic laminates and veneers.
Composition:Dispersion of acrylic resin and synthetic rubber in water
Company:Alfa Adhesives, Inc. 15 Lincoln Street, Hawthorne, NJ 07506 USA
Telephone: (973)423-9266 Fax: (973)423-9264

2. Ingredients

Chemical Name	CAS	Amount	PEL/TLV - Source
Water	7732-18-5	45%	Not Established
Proprietary Mixture	N/A	55%	Not Established
HAP Content		00%	NA

3. Physical Properties

Physical Form:Liquid
Color:Milky white or dyed
Odor:Slight
Solids Content:55%
Specific Gravity:1.06 g/cm³ at 68°F (20°C) DIN 51757
Particle Size:140 Micron
pH Value 73°F (23°C)7.0-9.2
Viscosity Brookfield (spindle 3, 20rpm):Approx. 1000 cP
Break Elongation:600%
Heat Resistance:176°F-194°F (80°C-90°C)
Boiling Point:212°F (100°C)
Freezing Point:32°F (0°C)
Vapor Pressure 68°F (20°C)23 mbar water

4. Fire and Explosion Hazard Data

Flash Point:None
Ignition Point:Not applicable
Self-Ignition Point of Dry Adhesive:842°F (450°C) DIN 54863
Other Ignition Point of Dry Adhesive:644°F (340°C) DIN 34863
Extinguishing Media:Water, carbon dioxide, or dry chemical
Special Firefighting Procedures:None known
Unusual Fire & Explosion Hazards:None known

5. Health Hazard Data

Effects of Overexposure:None known
First Aid Skin:Remove contaminated clothes. Wash with soap and water.
First Aid Eyes:Rinse with water for 15 minutes with lids spread.
For continued irritations, contact a physician.
First Aid Ingestion:If swallowed, dilute with water and consult a physician.

6. Reactivity Data

Conditions to Avoid:Keep from freezing
IncompatibilityNone known
Thermal Decomposition:None
Corrosive PropertiesNot corrosive
Oxidizer PropertiesNot an oxidizer
Other Reactivity DataNone known

7. Personal Protection Information

Respiratory:Not generally required during normal use and handling.
The need for respiratory protection should be evaluated if this material is sprayed in poorly ventilated areas.
Ventilation:General ventilation is recommended during normal use.
Local ventilation may be required during certain operations.
Protective gloves:Not required. Wash hands thoroughly.
Eye protection:Wear face shield, safety glasses or approved goggles.
Other equipment:Wear protective clothing. Eye wash station should be available.

8. Environmental Data

GeneralThis material is not regulated by RCRA or CERCLA "Super fund"
Toxicity DataIf Simalfa is applied properly no detrimental effect has become known. During long-lasting influence on skin and mucous membranes, irritations are possible.
Ecology DataSimalfa may not come in waters without having been pre-treated. Simalfa will be eliminated from the water since it is absorbed by the sewage sludge. If small concentrations are piped into biological sewage treatment plants no failure of the degradation process are to be expected.
Spill or Leak:Pump large quantities into containers; use sand to soak up remainder or use absorbing material like diatomaceous earth according to regulations. For smaller quantities clean up with water.
Disposal:Care should be taken to ensure that material or its containers are disposed of in an approved facility in accordance with current federal, state and local regulations.

9. Storage and Handling

Storage and Handling:Minimum 40°F (5°C) and maximum 104°F (40°C). Store in a dry place. Keep tightly closed to prevent loss of moisture.
Shelf Life4 months in unopened container.



10. Regulatory Information

GeneralNot regulated. This product is not hazardous according to the OSHA Hazard Communication Standard.

Not a controlled product under Canadian WHMIS.

Hazard Ratings	Health	Fire	Reactivity	Special
HMIS	1	0	0	NA

11. Transportation Information

DOT Shipping Name:Not regulated by DOT

UN NumberNone

DOT Hazard ClassNone

DOT Labels Required:None

12. Other Information

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Alfa Adhesives, Inc.

15 Lincoln Street

Hawthorne, NJ 07506 USA

Tel: 973.423.9266

Fax: 973.423.9264